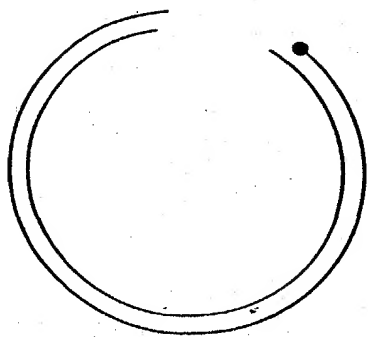LINEAR VECTORS   CIRCULAR VECTORS
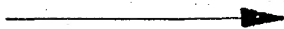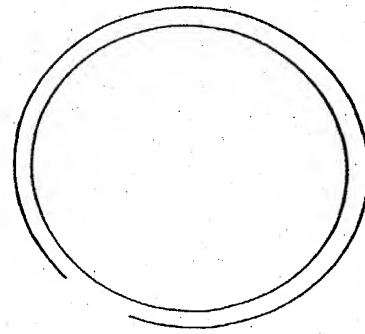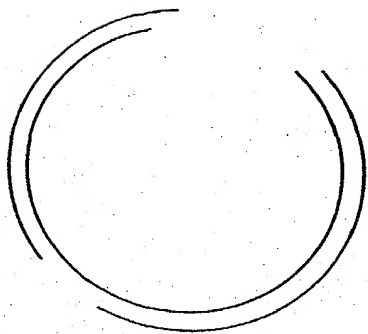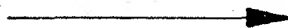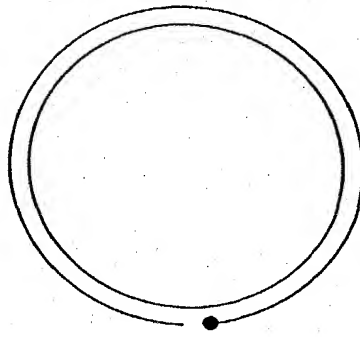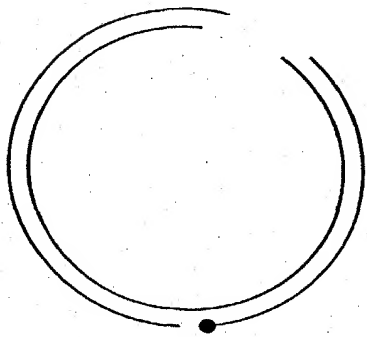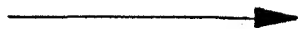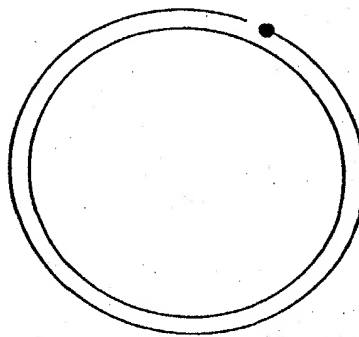
FIG. 1A

FIG. 1B

FIG. 1C

FIG. 2A

LINEAR VECTOR

CIRCULAR VECTOR

LIGATION

BIOTIN

NUCLEIC ACID MOLECULE

IMMOBILIZED
STREPTAVIDIN

DENATURATION

FIRST STRAND
CIRCULAR VECTOR

SECOND STRAND

1   2

INSERT

3   4
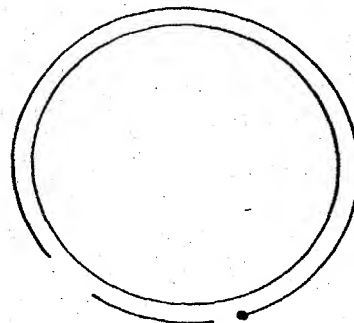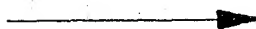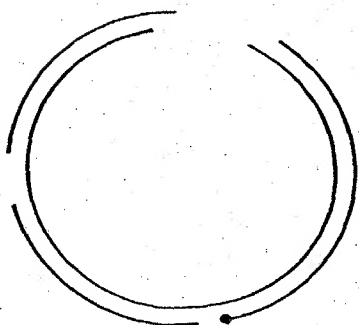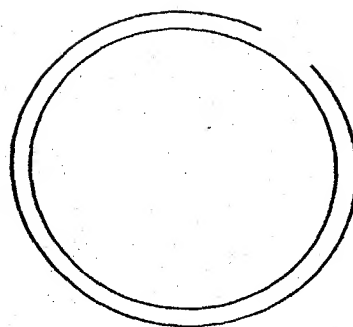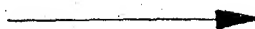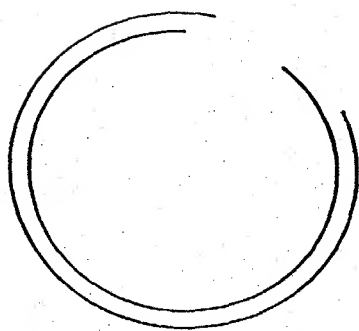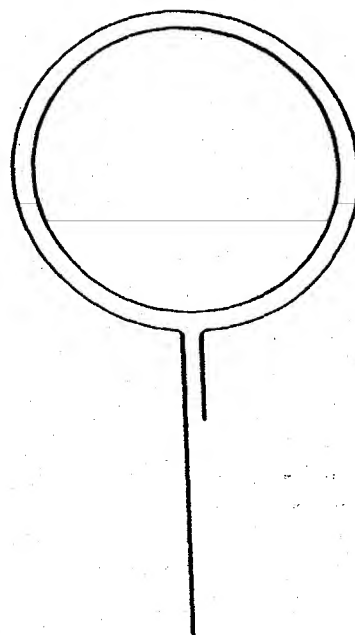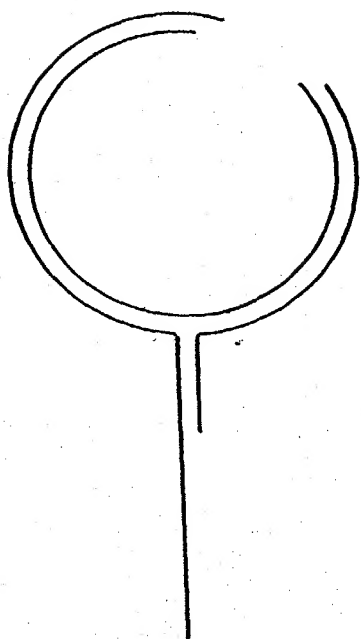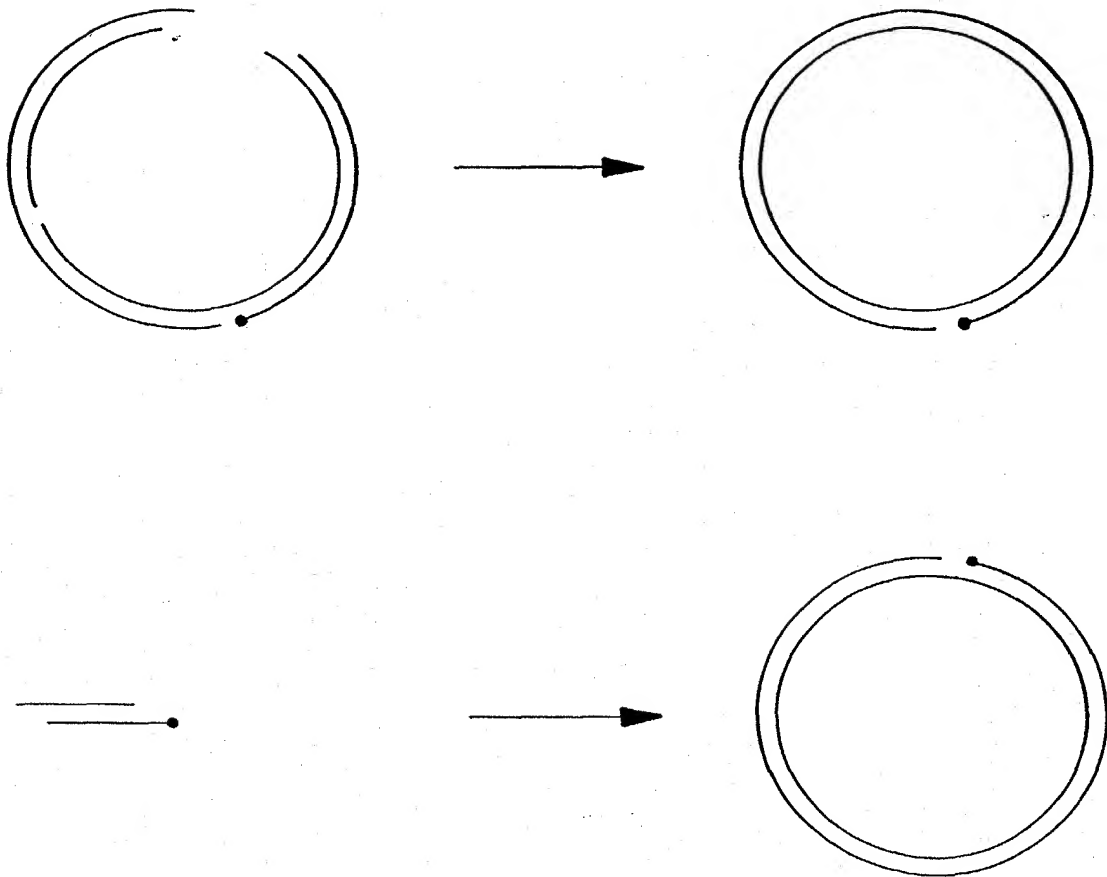
VECTOR

1, 3 ARE COMPATIBLE
      STICKY ENDS

2,4 ARE BLUNT ENDS

5

INSERT HAS BEEN LIGATED
INTO VECTOR

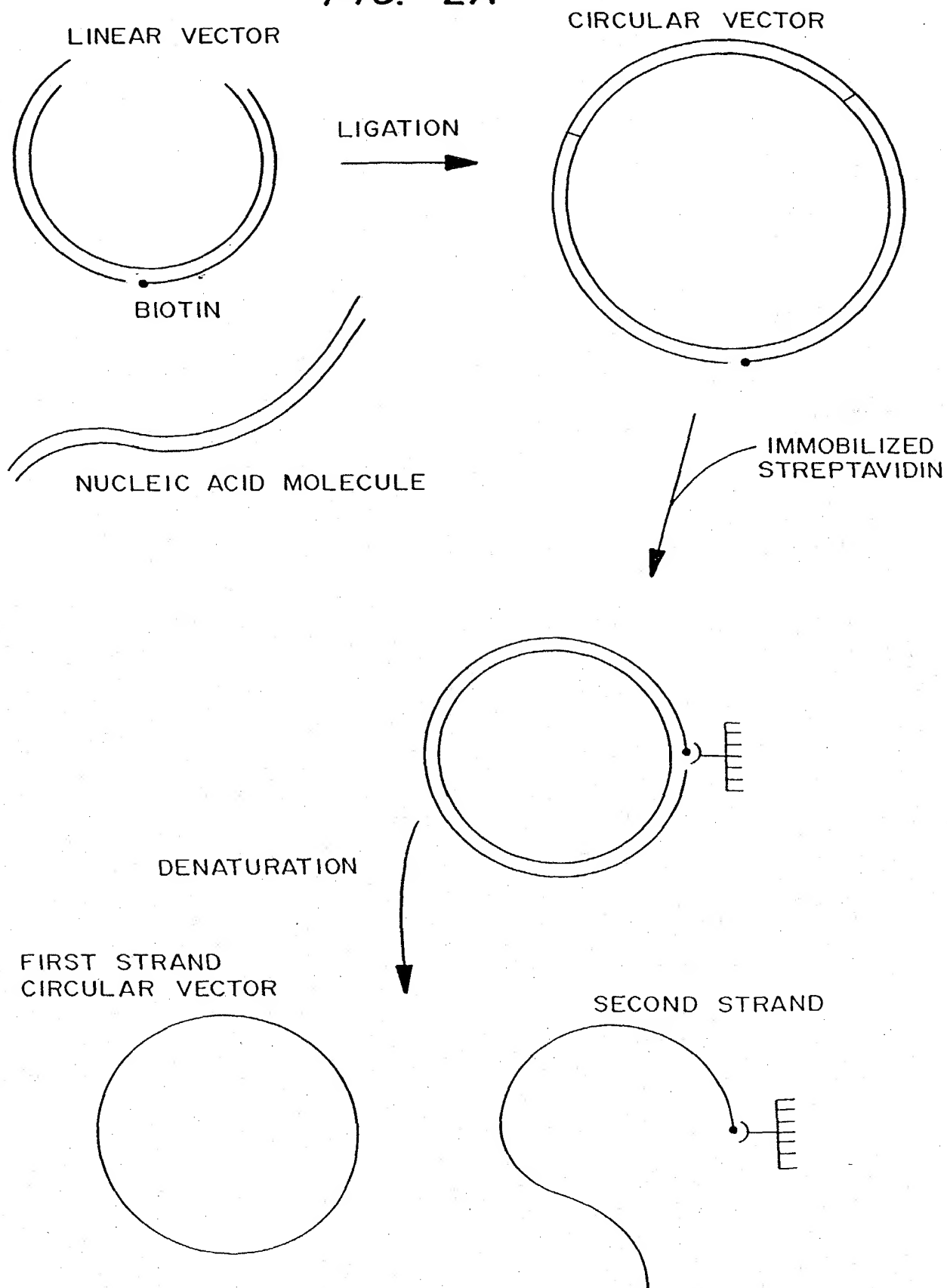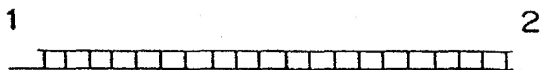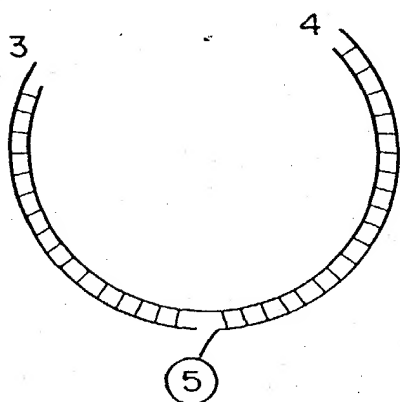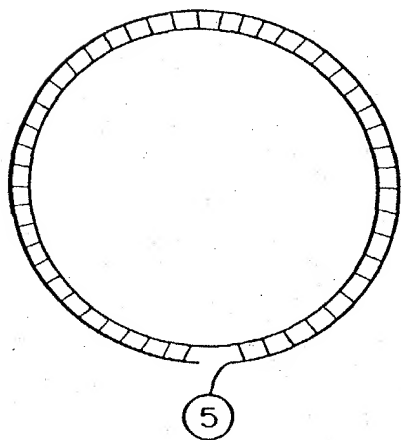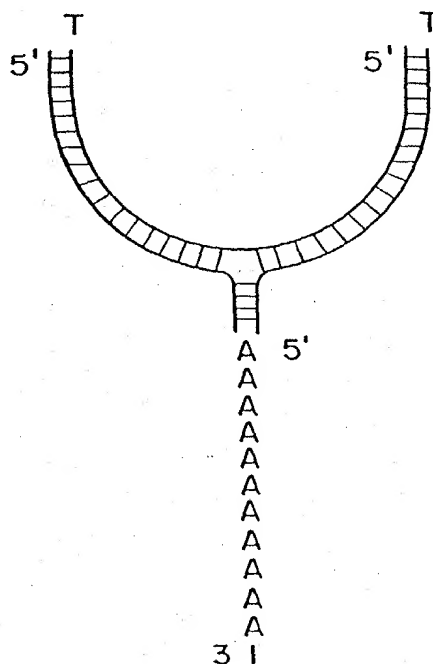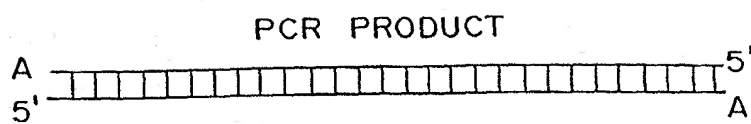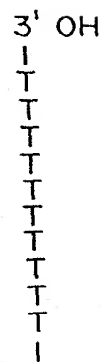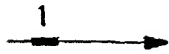5. IS BIOTIN OR ANY HAPTEN

5

FIG. 2B

FIG. 3

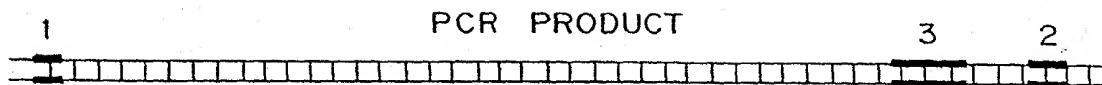PCR PRODUCT

Y - Vector

ALL 5' TERMINI CONTAIN
PHOSPHATE GROUP

CELLULOSE

FIG. 4

PRIMER

→ 1

PRIMER

← 3 2

PCR PRODUCT

1 ⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓⊓ 3 2
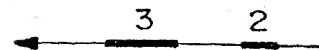
5
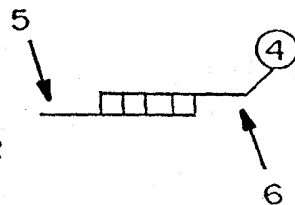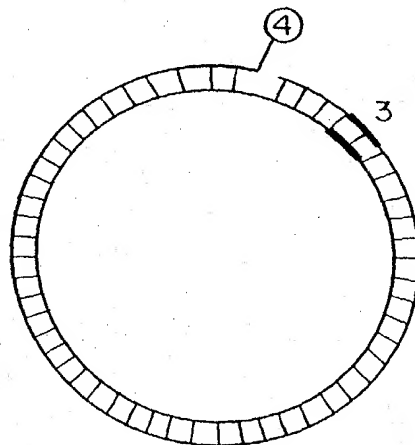④
6

LINKER-ADAPTOR

1, 2, 3 ARE RESTRICTION
SITES

5, 6 ARE STICKY ENDS
COMPATIBLE WITH
1 AND 2

4 IS BIOTIN OR ANY
HAPTEN

④
3

DIGESTED PCR PRODUCT
LIGATED TO ADAPTOR